Weidong Yu

List of Publications by Year
in descending order

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75 papers	2,426 citations	331670 21 h-index	214800 47 g-index
75 all docs	75 docs citations	75 times ranked	2801 citing authors

#	Article	IF	Citations
1	RAMA: The Research Moored Array for Africanâ€“Asianâ€“Australian Monsoon Analysis and Prediction[*]. Bulletin of the American Meteorological Society, 2009, 90, 459-480.	3.3	489
2	Projected response of the Indian Ocean Dipole to greenhouse warming. Nature Geoscience, 2013, 6, 999-1007.	12.9	201
3	How can anomalous western North Pacific Subtropical High intensify in late summer?. Geophysical Research Letters, 2013, 40, 2349-2354.	4.0	156
4	Bimodal Character of Cyclone Climatology in the Bay of Bengal Modulated by Monsoon Seasonal Cycle*. Journal of Climate, 2013, 26, 1033-1046.	3.2	154
5	Understanding the origins of interannual thermocline variations in the tropical Indian Ocean. Geophysical Research Letters, 2005, 32, .	4.0	146
6	Cause of severe droughts in Southwest China during 1951â€“2010. Climate Dynamics, 2014, 43, 2033-2042.	3.8	95
7	Global warming shifts Pacific tropical cyclone location. Geophysical Research Letters, 2010, 37, .	4.0	77
8	Recent wind-driven change in Subantarctic Mode Water and its impact on ocean heat storage. Nature Climate Change, 2018, 8, 58-63.	18.8	76
9	Dynamic and Thermodynamic Airâ€“Sea Coupling Associated with the Indian Ocean Dipole Diagnosed from 23 WCRP CMIP3 Models*. Journal of Climate, 2011, 24, 4941-4958.	3.2	64
10	Characteristics, vertical structures, and heat/salt transports of mesoscale eddies in the southeastern tropical <scp>I</scp>ndian <scp>O</scp>cean. Journal of Geophysical Research: Oceans, 2015, 120, 6733-6750.	2.6	60
11	Structures and mechanisms of the first-branch northward-propagating intraseasonal oscillation over the tropical Indian Ocean. Climate Dynamics, 2013, 40, 1707-1720.	3.8	58
12	Upper ocean variability in the Bay of Bengal during the tropical cyclones Nargis and Laila. Progress in Oceanography, 2012, 106, 49-61.	3.2	49
13	A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs. Frontiers in Marine Science, 2019, 6, .	2.5	49
14	Behavior of the Wyrtki Jet observed with surface drifting buoys and satellite altimeter. Geophysical Research Letters, 2009, 36, .	4.0	42
15	Differential impacts of conventional El NiÃ±oversusEl NiÃ±o Modoki on Malaysian rainfall anomaly during winter monsoon. International Journal of Climatology, 2014, 34, 2763-2774.	3.5	40
16	Contrasting Impacts of Radiative Forcing in the Southern Ocean versus Southern Tropics on ITCZ Position and Energy Transport in One GFDL Climate Model. Journal of Climate, 2018, 31, 5609-5628.	3.2	40
17	Why Was the Indian Ocean Dipole Weak in the Context of the Extreme El NiÃ±o in 2015?. Journal of Climate, 2017, 30, 4755-4761.	3.2	32
18	The critical role of the boreal summer mean state in the development of the IOD. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	31

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19	Anomalous behaviors of Wyrtki Jets in the equatorial Indian Ocean during 2013. Scientific Reports, 2016, 6, 29688.	3.3	28
20	Oceanic internal wave amplitude retrieval from satellite images based on a data-driven transfer learning model. Remote Sensing of Environment, 2022, 272, 112940.	11.0	28
21	Seasonal and Spatial Variations of the M₂ Internal Tide in the Yellow Sea. Journal of Geophysical Research: Oceans, 2019, 124, 1115-1138.	2.6	27
22	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. Scientific Reports, 2019, 9, 7364.	3.3	24
23	What controls the interannual variation of tropical cyclone genesis frequency over Bay of Bengal in the postâ€monsoon peak season?. Atmospheric Science Letters, 2016, 17, 148-154.	1.9	23
24	Strong modulations on the Bay of Bengal monsoon onset vortex by the first northward-propagating intra-seasonal oscillation. Climate Dynamics, 2016, 47, 107-115.	3.8	23
25	Arsenic and fluorine in groundwater in western Jilin Province, China: occurrence and health risk assessment. Natural Hazards, 2015, 77, 1903-1914.	3.4	22
26	Response of sea surface fugacity of CO₂ to the SAM shift south of Tasmania: Regional differences. Geophysical Research Letters, 2015, 42, 3973-3979.	4.0	20
27	Interannual Variability of Eddy Kinetic Energy in the Subtropical Southeast Indian Ocean Associated With the El NiÃ±oâ€Southern Oscillation. Journal of Geophysical Research: Oceans, 2018, 123, 1048-1061.	2.6	20
28	Aragonite saturation state in a monsoonal upwelling system off Java, Indonesia. Journal of Marine Systems, 2016, 153, 10-17.	2.1	19
29	Impacts of ENSO on the Bay of Bengal Summer Monsoon Onset via Modulating the Intraseasonal Oscillation. Geophysical Research Letters, 2018, 45, 5220-5228.	4.0	19
30	Revealing the Subsurface Yellow Sea Cold Water Mass from Satellite Data Associated with Typhoon Muifa. Journal of Geophysical Research: Oceans, 2019, 124, 7135-7152.	2.6	18
31	Climatic modulation of surface acidification rates through summertime wind forcing in the Southern Ocean. Nature Communications, 2018, 9, 3240.	12.8	17
32	The Onset of the Indonesianâ€“Australian Summer Monsoon Triggered by the First-Branch Eastward-Propagating Maddenâ€“Julian Oscillation. Journal of Climate, 2019, 32, 5453-5470.	3.2	17
33	Temporal changes in surface partial pressure of carbon dioxide and carbonate saturation state in the eastern equatorial Indian Ocean during the 1962â€“2012 period. Biogeosciences, 2014, 11, 6293-6305.	3.3	15
34	Observed Seasonal Variations of the Upper Ocean Structure and Airâ€Sea Interactions in the Andaman Sea. Journal of Geophysical Research: Oceans, 2018, 123, 922-938.	2.6	15
35	Evolution of Sea Surface Salinity Anomalies in the Southwestern Tropical Indian Ocean During 2010â€“2011 Influenced by a Negative IOD Event. Journal of Geophysical Research: Oceans, 2019, 124, 3428-3445.	2.6	15
36	What Controls Seasonal Variations of the Diurnal Cycle of Sea Surface Temperature in the Eastern Tropical Indian Ocean?*. Journal of Climate, 2015, 28, 8466-8485.	3.2	14

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37	Chlorophyll variability induced by mesoscale eddies in the southeastern tropical Indian Ocean. Journal of Marine Systems, 2019, 199, 103209.	2.1	13
38	Impacts of Different Types of ENSO Events on Thermocline Variability in the Southern Tropical Indian Ocean. Geophysical Research Letters, 2019, 46, 6775-6785.	4.0	13
39	Possible role of pre-monsoon sea surface warming in driving the summer monsoon onset over the Bay of Bengal. Climate Dynamics, 2016, 47, 753-763.	3.8	12
40	Evolving the Physical Global Ocean Observing System for Research and Application Services Through International Coordination. Frontiers in Marine Science, 2019, 6, .	2.5	11
41	Geneâ€“gene interaction of CFH, ARMS2, and ARMS2/HTRA1 on the risk of neovascular age-related macular degeneration and polypoidal choroidal vasculopathy in Chinese population. Eye, 2015, 29, 691-698.	2.1	10
42	Energeticsâ€Based Estimation of the Diapycnal Mixing Induced by Internal Tides in the Andaman Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016521.	2.6	10
43	The distribution and variability of simulated chlorophyll concentration over the tropical Indian Ocean from five CMIP5 models. Journal of Ocean University of China, 2013, 12, 253-259.	1.2	9
44	The mean properties and variations of the Southern Hemisphere subpolar gyres estimated by Simple Ocean Data Assimilation (SODA) products. Acta Oceanologica Sinica, 2016, 35, 8-13.	1.0	9
45	Spring Barrier to the MJO Eastward Propagation. Geophysical Research Letters, 2020, 47, e2020GL087788.	4.0	9
46	Ocean Climate Monitoring. Frontiers in Marine Science, 2019, 6, .	2.5	8
47	Tracking Airâ€“Sea Exchange and Upper-Ocean Variability in the Indonesianâ€“Australian Basin during the Onset of the 2018/19 Australian Summer Monsoon. Bulletin of the American Meteorological Society, 2020, 101, E1397-E1412.	3.3	8
48	Modulation of interannual variability of tropical cyclone activity over Southeast Indian Ocean by negative IOD phase. Dynamics of Atmospheres and Oceans, 2015, 72, 62-69.	1.8	7
49	Brain discriminative cognition on the perception of touching different fabric using fingers actively. Skin Research and Technology, 2016, 22, 63-68.	1.6	7
50	Environmental Conditions Modulating Tropical Cyclone Formation over the Bay of Bengal during the Pre-Monsoon Transition Period. Journal of Climate, 2019, 32, 4387-4394.	3.2	7
51	Improvement of the SLP simulation in the coupled AGCM-ocean surface wave model. Science Bulletin, 2005, 50, 2397-2400.	1.7	6
52	Investigation of the cortical activation by touching fabric actively using fingers. Skin Research and Technology, 2015, 21, 444-448.	1.6	6
53	The observed tidal and residual currents in the Andaman Sea during the second half of 2016. Acta Oceanologica Sinica, 2018, 37, 13-21.	1.0	6
54	Structures and Northward Propagation of the Quasi-Biweekly Oscillation in the Western North Pacific. Journal of Climate, 2020, 33, 6873-6888.	3.2	6

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55	Ocean Climate: â€œOff the Shelfâ€• Marine Technology Society Journal, 2013, 47, 7-18.	0.4	4
56	Assessment of the seasonal variation of simulated Wyrtki jet over the tropical Indian Ocean in CMIP5 models. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	4
57	Environmental conditions regulating the formation of super tropical cyclone during pre-monsoon transition period over Bay of Bengal. Climate Dynamics, 2019, 52, 3857-3867.	3.8	4
58	Diurnal Sea surface temperature response to tropical cyclone Dahlia in the Eastern tropical Indian Ocean in 2017 revealed by the Bailong buoy. Dynamics of Atmospheres and Oceans, 2020, 92, 101163.	1.8	4
59	Equatorial Moisture Dynamics of the Quasiâ€Biweekly Oscillation in the Tropical Northwestern Pacific During Boreal Summer. Geophysical Research Letters, 2021, 48, e2020GL090929.	4.0	4
60	Seasonal variation in diel vertical migration of zooplankton and micronekton in the Andaman Sea observed by a moored ADCP. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 179, 103663.	1.4	4
61	Late monsoon threatens coral refugia in the Andaman Sea. Environmental Research Letters, 2022, 17, 034038.	5.2	4
62	â€œBai-Longâ€• A TAO-hybrid on RAMA. , 2011, , .		3
63	The Northward-Propagating Intraseasonal Oscillations in the Northern Indian Ocean during Springâ€“Early Summer. Journal of Climate, 2018, 31, 7003-7017.	3.2	3
64	Eddy properties in the Pacific sector of the Southern Ocean from satellite altimetry data. Acta Oceanologica Sinica, 2016, 35, 28-34.	1.0	2
65	Intraseasonal modulation of Wyrtki jet in the eastern Indian Ocean by equatorial waves during spring 2013. Acta Oceanologica Sinica, 2020, 39, 11-18.	1.0	2
66	The unique mean seasonal cycle in the Indian Ocean anchors its various air-sea coupled modes across the basin. Scientific Reports, 2021, 11, 5632.	3.3	2
67	Influence of South Tropical Indian Ocean dynamics on the Indian summer monsoon. , 2021, , 183-196.		2
68	Modulation of observed sea surface temperature variation by the quasiâ€biweekly oscillation in the tropical western Pacific during boreal summer. International Journal of Climatology, 2022, 42, 3173-3189.	3.5	2
69	Rainfall asymmetry in the southeast Indian Ocean between positive and negative <scp>IODs</scp> and its local impact. Atmospheric Science Letters, 2014, 15, 127-133.	1.9	1
70	Improvement of the SLP simulation in the coupled AGCM-ocean surface wave model. Science Bulletin, 2005, 50, 2397.	1.7	1
71	The coupling instability of Rossby and topographic Rossby waves in the equatorial area. Science in China Series D: Earth Sciences, 2005, 48, 1792-1801.	0.9	0
72	Analysis on Spatio-temporal Characteristics of Wintertime Planetary Wave in the Northern Hemisphere Based on 2D FFT. Lecture Notes in Computer Science, 2007, , 98-104.	1.3	0

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73	SUâ€Eâ€Tâ€744: The Study of Total Marrow Irradiation Based On Rotational Intensityâ€Modulated Techniques. Medical Physics, 2015, 42, 3508-3508.	3.0	0
74	Maintenance of the Basin-dependent Quasi-biweekly Mode in the Indian Ocean during Summer. Journal of Climate, 2022, , 1-37.	3.2	0
75	A Machine-learning-based Model to Inverse Internal Solitary Wave Amplitude from Satellite Image. , 2022, , .		0